ROUTING AND RECORD SHEET

SUBJECT: (Optional)

FROM:	EXTENSION	NO.
D/OL		DD/A Registry 86-2131X
		DATE 15 DEC 1986

TO: (Officer designation, room number, and building)	DATE RECEIVED	DATE FORWARDED	OFFICER'S INITIALS	COMMENTS (Number each comment to show from whom to whom. Draw a line across column after each comment.)
1. EXA/DDA	17 DEC 1986	12/17	JM	O-1/2: I for one was never aware of the amount of planning and coordination necessary as described in the attached. While the "world slept," a very critical changeover was undertaken with our UPS systems. All went well, needless to say. You may wish to glance at the attached.
2. ADDA	17 DEC 1986			
3. DDA		17 DEC 1986		
4. DDA/Registry				
5.				
6.				
7.				
8.				
9.				
10. Bill & Hank -				
11. This is as good as				
12. anything ODGE does in				
13. transition planning. Nice work. [redacted]				
14.				This guy was an OL employee of the QTR - maybe we are getting some of it right. H
15.				

DDA REGISTRY FILE:

STAT

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FORM 1-79 **610** USE PREVIOUS EDITIONS

Existing Teledyne UPS System Load Switch Over Operation To The New 1500 KW Piller UPS System. GJ10 - GJ20 AREA

5-8 DECEMBER 1986

Prepared By: B.J. H.
Project Officer
MB/OPS/FMD/OL

STAT Telephone:

Date: 4 December 1986

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SECTION I - NOTIFICATION

1. Monday, 1 December 1986

A meeting was conducted at 1000 hours in the 3E24 Conference Room by the FMD Project Officer with the Key Personnel of FMD, Allied, OIT, DICON and CONTEL to disscuss the planned activities and possible problems. All parties consented to the proposed operation plan to include times and dates of activities. The Escort Office was advised of the operational requirement of seven escorts per shift and was requested to submit a list by name of participating personnel by 1100 hours 4 December 1986 to the FMD Project Officer for incorporation into this Scenario. A list of attendees is available from the FMD Project Officer. OIT telephone representative to set up emergency procedures and stand by telephone crews for coverage during the operations. This information should be made available to FMD by 1200 hours 4 December 1986 for incorporation into the overall scenario.

ALLIED TASK REQUIREMENTS FOR WORK ORDER 790590

RE: Existing Teledyne UPS System Load Switch Over Operation To The New 1500 KW Piller UPS System. GJ10 - GJ20 AREA

5-8 DECEMBER 1986

This critical switch over operation is planned to occur during the hours of 1745 hours 5 December - 0600 hours 8 December 1986. The Judd Electrical Company a subcontractor of Gilles & Cotting (the General Contractor) will be performing the major portion of work during this operation. The Judd Electrical Company will be required to work continuously during this switch over operation.

It is requested that Allied provide all labor and material as required to support this scheduled power outage as follows:

1. Provide for the disconnection and reconnection of the existing Teledyne UPS system battery bank. This work to be accomplished on the D.C. 500 MCM AWG battery feeder conductors coming from the battery safety switch at the "exposed cable end connection point" to the existing battery bank. Coordination of times of these activities to be established by FMD Project Officer.

2. Provide two electricians to support outage operations as required and directed by FMD Project Officer. Duties to include but not limited to opening, closeing and tagging out breakers and providing emergency support operations if required and as directed by FMD Project Officer.

Additional Information:

A Scenario of activities is being developed by FMD for this operation. Copies shall be made available as soon as possible to Allied personnel. Allied personnel Ed Kirschner and Richard Czapp are aware of the required project operations.
The FMD Project Officer B.J. will be the focal point for coordination of outage activities to include special shutdown and start up operations. For questions or additional information please contact the FMD Project Officer B.J. on ext.

STAT

SECTION II - SCOPE OF PROJECT

The renovation work being conducted in the GJ-10 / GJ-20 Area is in support of the installation of the new 1500 KW Piller UPS system, this new Piller UPS System is to take the place of the existing 1000 KW Teledyne UPS system. The current construction work phase of the project calls for the removal of the existing Teledyne UPS system in the GJ-16 Area. Thus generating the requirement of conducting the critical existing electrical load switch over operation between the existing 1000 KW Teledyne UPS system to the new 1500 KW Piller UPS system.

This switch over operation is planned to occur during the hours of 1745 hours 5 December - 0600 hours 8 December 1986. The Judd Electrical Company a subcontractor of Gilles & Cotting (the General Contractor) will be performing the major portion of work during this operation. The Judd Electrical Company will be required to work continuously during this switch over operation.

The following scenario will permit a successful electrical load switch over operation.

SECTION III - SCENARIO

1. Monday, 1 December 1986, the electrical contractor Fischbach & Moore arrives on site to perform the following: Remove load bank supply, load cables from the MAUB Switchgear in the GJ-10 Area, removes temporary load feeders from the electrical "A" vault to MAUB in the GJ-10 Area.

2. Monday, 1 December 1986, the electrical contractor Judd Electrical arrives on site to perform the following: Receives wire shipments and starts preparatory work for the A.C. portion of the wire pulling.

3. Tuesday, 2 - 5 December 1986, the electrical contractor Judd Electrical performs the following A.C. Voltage wiring pulls and other preparatory work as required:

A. Pulls in the three new 600 MCM AWG, 480 volt input MAUB feeders from existing 480 Volt switchgear Teledyne UPS Input breaker located in "A" vault.

B. Pulls in two out of the required three new 500 MCM AWG, 480 volt output MAUB feeders to existing 480 Volt Teledyne UPS Output Switchgear located in "A" vault.

C. Completes preparatory work for final pull of Item B. above. Pull to be accomplished during outage period due to safety reasons.

5. Thursday, 4 December 1986, the foreman for Judd Electrical Company along with the FMD Project Officer shall inventory all required material and equipment needed to assure completion of project operations. A list of all participating personnel requiring Visitor Passes shall be turned in to the Security Duty Office. A list containing the names of escorts, electricians and other key personnel shall be incorporated into the scenario.

6. Thursday, 4 December 1986, the electrical contractor Fischbach & Moore arrives at 1600 Hours to perform the following: Pulls in cables for the A.C. & D.C. Input connections for Uniblock Unit # 2, additionally terminates cables to appropriate connection points in the GJ-10 Area.

7. Friday 5 December 1986, by 1130 hours FMD Project Officer will make a GO or NO GO (ABORT) decision concerning the planned switch over operation. Notification of the decision made at this time shall be given to the Key Personnel of FMD, Allied, OIT, DICON, CONTEL, Duty Security Office, Escort Office and the Contractors. These notifications shall be made by the FMD Project Officer.

Additionally assuming a GO decision the final copies of this scenario will be passed out to the Key Personnel at this time.

9. Friday 5 December 1986, at approximately 1730 hours escorts will meet at the Northeast entrance to meet contractor personnel and commence escort duties. At approximately 1745 hours Key Personnel of FMD, Allied (Electricians), OIT (Jack R.) and DICON shall meet in the GJ-16 Area to start the Teledyne UPS "SYSTEM BY-PASS" procedures, tag out required breakers in "A" vault, and to open the D.C. Safety Switch in the battery Room.

At approximately 1800 hours the down systems will be turned over to Judd Electrical who will commence operations.

At approximately 1800 hours Allied Electricans will commence operations to disconnect the D.C. 500 MCM AWG battery feeder conductors coming from the battery safety switch at the "exposed cable end connection point" to the existing battery bank.

10. It is estimated that from 1800 hours 5 December to 1200 hours 7 December that Judd Electrical will be able to perform the following work activities:

A.C. VOLTAGE WORK:

A. Pulls in the last new 500 MCM AWG, 480 volt output MAUB feeders to existing 480 Volt Teledyne UPS Output Switchgear located in "A" vault.

B. Cut, end prep. and terminates all conductors as required to respective breakers in "A" vault.

C. Pulls in feed from MAUB output switchgear to existing 225 KVA Unit Substation located in the new GJ-2002 Area.

D.C. VOLTAGE WORK:

A. Upgrades the existing 3000 Ampere battery disconnect to a 4000 Ampere disconnect in the existing battery room.

B. Pulls back existing D.C. feeder conductors back to existing junction box in the GJ-2006 Area.

C. Reworks four each four inch D.C. conduits in the GJ-2006 Area.

D. Pulls in new D.C. Feeder conductors from DCDS battery disconnect switches in the GJ-10 Area. Additionally meggers conductors and terminates conductors in the upgraded battery disconnect switch.

11. Saturday, 6 December 1986, the electrical contractor Fischbach & Moore during the hours of 0800 Hours through 2400 hours performs the following:

A. Conduct continuity test on conductors, train and dress conductors.

B. Complete the remaining required terminations of the A.C. input and output cables that where installed by Judd Electrical in the MAUB in the GJ-10 Area.

C. Terminate all conductors in DCDS battery disconnect switches in the GJ-10 Area and terminate conductors in the upgraded battery disconnect switch.

12. It is estimated that by 2200 hours 6 December that the Judd Electrical will have completed their D.C. Work activities.

Upon notification that activities have been completed and a safe condition exists the FMD Project Officer will accomplish the following:

The Allied Electricans will be notified to commence operations to reconnect the D.C. 500 MCM AWG battery feeder conductors from the battery safety switch to the point of connection of the existing battery bank.

After this work is completed the FMD Project Officer is to be notified.

The Project Officer will ensure a safe condition exist before giving permission to Allied Electricans to "Close" the D.C. Safety Switch in the battery Room.

The Allied Electricans "CLOSES" the D.C. Safety Switch in the battery room.

13. It is estimated that by 1800 hours 7 December that all required work and testing has been completed and the new piller system is ready to be placed into an "READY OPERATIONAL MODE".

At this time Key Personnel of FMD, Allied, DICON and KW Piller will be on hand to start the reverse sequence "BYPASS SWITCHING". Allied will remove all tags placed on the required breakers in "A" vault.

14. Upon the succesful completion of holding load for a one hour period the KEY PERSONNEL of FMD, Allied, OIT, DICON, CONTEL and Duty Security Office, will be notified of the following:

That we are back on UPS POWER and that the a 8 hour standby watch period has started. These notifications shall be made by the FMD Project Officer.

A 8 hour watch will be conducted on this equipment by FMD, DICON and Piller. After this watch period the KEY PERSONNEL of FMD, Allied, OIT, DICON, CONTEL, Duty Security Office, Escort Office and any remaining contractors will be notified of the completion of operation. These notifications shall be made by the FMD Project Officer.

NOTE: After this watch the proposed Allied operational and watch procedures shall take effect.

EMERGENGY CONTACT NOTIFICATION LIST

CONTACT	PHONE/RADIO	OFFICE LOCATION
STAT FMD PROJECT OFFICER		3E40
OIT		1A26
Allied Call Cord.		GC04
Security Duty Office		1E24

NOTE: IN CASE OF FIRE CONTACT SECURITY DUTY OFFICE FIRST.

THESE NUMBERS WILL BE MANNED CONTINUOUSLY FOR THE DURATION OF THIS OPERATION.

SECTION IV - MANNING: FMD

Date	Time	Personnel
STAT 5 December	1700 Hours - 2400 Hours	
6 December	2400 Hours - 0800 Hours	
6 December	0800 Hours - 2000 Hours	
6 December	2000 Hours - 2400 Hours	
7 December	2400 Hours - 0700 Hours	
7 December	0700 Hours - 1500 Hours	
7 December	1500 Hours - 2400 Hours	
8 December	2400 Hours - 0600 Hours	

END OF WATCH

NOTE:: The FMD PROJECT OFFICER may be reached by Radio Call
STAT Sign [redacted] or by the Allied Service Coordinator on
STAT [redacted]

STAT B.J. H. will be on Beeper # [redacted] at all times.
STAT Beeper Instructions: 1. Dial Paser Phone Number [redacted]
2. Listen for three beeps. 3. Punch in your phone number you wish to be reached at. 4. Punch the # key to seal transmission. 5. Listen for three more beeps, then hang up.

SECTION IV - MANNING: OIT

The manning of the this office will be conducted as follows:

Contact Person	PHONE/RADIO	OFFICE LOCATION
STAT JACK or CHET		1A26

NOTE: This office will act as the point of contact for the affected computer centers and for the Non-Secure and Secure Telephone contact KEY PERSONNEL in case of emergency.

NOTE: NO ESCORTS REQUIRED

SECTION IV - MANNING: ALLIED

Allied Electricians

Ron Durniak
Jim Pack
Randy Leatch

Note: Electricians may be reached by Radio Call Sign "Unit
STAT [redacted] or by the Allied Service Coordinator on ext.
STAT [redacted]

NOTE: NO ESCORTS REQUIRED

SECTION III - MANNING: SUB-CONTRACTORS

Judd Electrical: 1730 hours 5 December - 0600 hours 8 December or as required. For names see attached list.

Fishbach & Moore Electrical: 1730 hours 5 December - 0600 hours 8 December or as required.

Eckert, Larry
Brenner, Don
Reh, Fred
Newton, Carroll
Nowak, Steve
Eugenio, Jon
Bassett, Ken
Lytle, Mike
Marlow, Chuck
Murphy, Dennis
White, Rick
Gough, Tom

DICON CONTRACTOR 1730 hours 5 December - 0600 hours 8 December or as required.

Mulherin, Jim
John, Ralph E.

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